ChemRisk/Shonka Research Associates, Inc., Document Request Form

2613

(This section to be completed by subcontractor requesting document)

J. Lamb / 1034A
Requestor / Document Center (is requested to provide the following document)

Date of request 12/8/95 Expected receipt of document 1/8/95

Document number KP-T307 K/EM-298 Date of document 10/18/57

Title and author (if document is unnumbered)

(This section to be completed by Document Center)

Date request received 12/12/95

Date submitted to ADC 12/14/95

Date submitted to HSA Coordinator 12/12/95

(This section to be completed by HSA Coordinator)

Date submitted to CICO 12/14/95, 1-18-96

Date received from CICO 1-8-96 3/6/96

Date submitted to ChemRisk/Shonka and DOE 3/6/96

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

Date document received

Signature

K/EM-298

SANITIZED VERSION OF MATERIAL RELEASE K-304-5.8 (1957)

(SANITIZED VERSION OF CRD DOCUMENT # KP-1307)

Compiled by
S. G. Thornton
Environmental Management Division
OAK RIDGE K-25 SITE
for the Health Studies Agreement

December 14, 1995

Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7314
managed by
LOCKHEED MARTIN ENERGY SYSTEMS, INC.
for the U.S. DEPARTMENT OF ENERGY
under Contract DE-AC05-84OR21400

[redacted]

INTER-COMPANY CORRESPONDENCE

UNION CARBIDE NUCLEAR COMPANY

Division of Union Carbide Corporation

To: Mr. H. M. Preuss
K-303-7

Plant: Oak Ridge Gaseous Diffusion

Date: October 18, 1957

Copies To: Mr. K. M. Jones
File (G. T. E. Sheldon)
Production Division Central Files ✓

Subject: Material Release K-304-5.8
KP-1307

On August 1, 1957, K-304-5, cell 8, was evacuated to 1.0 psia, and at 0730 was pressured to 16.5 psia in an effort to find a 900 SCFD air leak that had not been located by utilizing normal means of leak detecting. No UF_6 was evident, but could be smelled around stages 1 and 2. The relieving operators prepared to enter the cell enclosure about 0815, but found UF_6 vapor present. The cell was then evacuated and given several purges. Meanwhile, a mobile purge unit was connected to the enclosure and the ambient evacuated through the alumina traps. This operation continued for about seven hours in order to remove all of the UF_6 and allow personnel to enter. Soon after 1600, operators from cascade services entered the cell to vacuum and acid clean. Upon completion, the cell was pressured above atmosphere and two leaks were located and repaired on the expansion joint between the 1A and 2B pumps.

Special accountability was requested on the cell enclosure clean-up, and the alumina removed from the mobile purge unit with the following results:

	U	X
Alumina	51 grams	
Enclosure Clean-up	2.7 grams	

The assay of the alumina is unexplainable since this mobile unit has never been used outside of Area 4. The assay of the material cleaned up in the cell enclosure showed 5% lower than the actual assay.

Operating personnel were cautioned about using this method of leak detecting with the reminder that this type of operation should never be performed without taking adequate precautionary methods and certainly never at shift change.

G. T. E. Sheldon

GTES/lss

[redacted]

RESTRICTED DATA
This document contains restricted data as defined in the Atomic Energy Act of 1954. Unauthorized disclosure subject to Administrative and Criminal Sanctions.

DISTRIBUTION

1. K-25 Site Records (RC)
2. ChemRisk/Shonka Research Associates
3. S. G. Thornton (K-25 EMD)
4. DOE Public Reading Room